



ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
P.O. Box 8044
Madison, Wisconsin 53708-8044
TDD #: (608) 264-8777

Jim Doyle, Governor
Jack L. Fischer, A.I.A., Secretary

Wisconsin Department of Commerce, Bureau of PECFA Bid Document

SECTION 1 - Scope of Work

The Bureau of PECFA is seeking competitive bids to perform remedial services for a petroleum release from a regulated petroleum product storage tank system. This bid is for a specified work scope. The site upon which bids are being solicited is:

Bid Round: 54

Comm #: 53511-9999-01-B

BRRTS #: 03-54-000307

Site Name: Coltec Industries-Fairbanks Morse Engine Division

Site Address: 701 White Ave, Beloit, 53511

Site Manager: Janet DiMaggio

Address: 3911 Fish Hatchery Rd

City, State Zip: Fitchburg, WI 53711-5367

Phone: 608-275-3295

e-mail: janet.dimaggio@wisconsin.gov

Bid Manager: Ralph N. Smith

Address: P.O. Box 8044

City, State Zip: Madison, Wisconsin 53708-8044

Phone: (608) 261-6543

e-mail: ralph.smith@wisconsin.gov

Bid-Start Date:	April 7, 2008
Questions must be received by (See Section 2 (B)):	April 21, 2008 4:00 PM
Responses will be posted by (See Section 2 (B)):	May 2, 2008 4:00 PM
Bid-End Date and Time:	May 23, 2008 4:00 PM

The case file, including report(s) and other pertinent information upon which bids are being sought, are available for review at the Site Manager's location listed above. Please contact the Site Manager for an appointment to review the file.

Copies of report(s) and other pertinent information are available for purchase at the location listed below. If pertinent information is not available, please contact the Site Manager.

Ivize-Madison, 1 E Main, Madison, WI 53703
Phone: (608) 663-1041 Fax: (608) 663-1045

SECTION 2 – Site-Specific Bid Requirements

A) General Comments

The site is an industrial facility. An underground storage tank assessment completed in 1988 revealed the presence of extensive diesel fuel related contamination. A site investigation, including free product recovery efforts, was begun in 1990. The stratigraphy across the investigated area consists of silt, silty sand, sand, and fill material with cobbles and construction/demolition debris. The static water table is generally present beneath the source area at between 46 and 51 feet below ground surface (bgs). Two distinct plumes (occurrences) of diesel free product a/k/a Light Non-Aqueous Phase Liquid (LNAPL) are present at the site. Occurrence A is the larger, southern plume. Occurrence B is the smaller, northern plume. This bid specification deals strictly with Occurrence B, the smaller, northern free product (LNAPL) plume.

This site was previously bid in Round 39.

Approximately 55,000 gallons of mixed free product/contaminated groundwater have been extracted from occurrence B since 1990. Volatile organic compounds (VOCs, chlorinated hydrocarbons), petroleum volatile organic compounds (PVOCs), and polycyclic aromatic hydrocarbons (PAHs) are all present in groundwater in the dissolved phase above enforcement standards. The extent of groundwater contamination at and below the water table has been generally defined. The core of the groundwater contaminant plume is located in the area of wells MW-1, MW-2, and RW-2 (all of which had free product present in 2003-2007). Petroleum product that is not in the dissolved phase is present with a thickness of .01 feet or more, and verified by more than one sampling event. The estimated volume of free product over the affected area is 252.15 gallons with approximately 75 gallons of recoverable free product.

Groundwater flow is generally to the south, with slight southeasterly and southwesterly components. The source area is about 1200 feet from the Rock River and about 200 feet from an on-site high capacity industrial well.

Minimum Remedial Requirements

1. Conduct quarterly free product monitoring within the northern diesel free product plume (Occurrence B) at wells MW-1, MW-2, MW-3, MW-12, MW-13, MW-21, MW-29B, MW-30B, and RW-2. Free product measurement can be accomplished documenting water table elevations, free product thickness in wells, and the volume of free product estimated-shall be submitted to the WDNR and Commerce quarterly.

2. Groundwater samples shall be collected from all of the designated monitoring wells, including any in which free product is discovered. Measure groundwater (and free product, if present) elevations in all the wells, whether sampled or not, and report the data in tabular form. Sampling of any wells where free product is present shall be done after hand bailing the free product to prevent erroneous results. Prepare water table maps showing groundwater flow for each sampling round. Conduct groundwater monitoring for four consecutive quarters, as follows:

Wells	Sample Quarterly	Sample Semi-annually	Sample Annually
MW-1, MW-2, MW-3, MW-12, MW-29B, MW-30B	VOCs, Groundwater elevations	PAHs	RNA*
MW-6, MW-7, MW-9, MW-10, MW-11, MW-13, MW-21, MW-22, MW-23, PZ-1		VOCS, PAHs, Groundwater elevations	RNA*
MW-4, MW-5, PZ-2			VOCs, RNA*, Groundwater elevations
Industrial Well #1			Safe Drinking Water Act VOCs

***Remediation by Natural Attenuation parameters. Bidders should follow the recommended RNA parameter list found on Table C-1 of the Wisconsin Department of Natural Resources *Guidance on Natural Attenuation for Petroleum Releases*, PUB-RR-614, March 2003.**

Since VOC analysis of groundwater samples will not be PECFA eligible, please submit costs for PVOC analysis only, with the understanding that VOC analysis must be conducted on the specified wells in order to accurately complete the work scope.

Properly store and dispose/treat all contaminated material generated at this site as part of the bid scope of work, and provide proper documentation to the DNR.

Please continue to keep costs separate for PECFA eligible and ineligible costs. Most of the costs for the northern LNAPL plume (B Occurrence) are PECFA eligible. Most of the ineligible costs for this site are associated with the other LNAPL plume (A Occurrence). Each LNAPL plume is distinct and non-commingled. As a result, please keep costs separated per this bid scope of work, and a cost separation methodology is not necessary as long as ineligible costs (e.g., full VOCs after initial round of groundwater sampling) are not included for reimbursement at claim time.

3. Drilling must be completed using sonic drilling technology, due to difficult subsurface drilling conditions (fill material with cobbles and construction/demolition debris). Advance one boring in the vicinity of wells MW-1, MW-2, and RW-2. Continuously sample and descriptively log the boring to the water table (approximately 46-51 feet bgs) and field screen for petroleum vapors. A minimum of two soil samples, analyzed for PVOCs and PAHs, must be collected. The samples should be from 1) the unsaturated zone, slightly above the water table (a depth of approximately 43-48 feet bgs) and 2) the depth with the highest petroleum concentration that is different than 1). Note the thickness of free product if present. All soil analytical results shall be presented in the first quarterly report, as required below. Costs for mob/demob and disposal of all drilling waste must be included in the bid.

LNAPL characterization shall be achieved by collecting a representative soil sample from the "smear zone" for qualitative sieve testing. Utilize a sieve analysis appropriate to site soil conditions (a #200 screen analysis may not be adequate if a significant proportion of the soil is clay or silt). Determine the formation specific volume based on the quantitative soil type and the greatest apparent historical LNAPL well thickness. Based on all available site information, estimate the LNAPL plume area. Calculate the volume of in-place LNAPL (in gallons).

Collect a LNAPL sample from MW-1, MW-2, or RW-2 for the following quantitative fluid property analyses:

- Density (gm/cc) using ASTM D1481 (or similar method) at formation temperature
- Viscosity (cp) using ASTM D445 (or similar method) at formation temperature
- Interfacial tensions (dyne/cm) for air/water, air/LNAPL, and LNAPL/water using ASTM D971 (or similar method)

Appropriate alternative ASTM lab methods may be used other than those indicated above. Refer to API Publication 4711, *Methods for Determining Inputs to Environmental Petroleum Hydrocarbon Mobility and Recovery Models* (pg 13-16).

Analyze historic free product thicknesses in MW-1, MW-2, and RW-2 for correlation to changes in water level.

4. Brief quarterly reports shall be submitted to include tabulated groundwater analytical results, tabulated groundwater elevation data, tabulated free product data, and groundwater flow direction diagrams for each groundwater sampling event. Soil data collected are required to be submitted in the first quarterly report. It is understood the LNAPL fluid property analyses will take a longer lab turnaround time.

5. Locate and document the location of wells MW-2, MW-6 and MW-21 (these were reported as "unable to locate" in one or more sampling rounds in Table 1 of the MSA Status Report dated July 2007). Groundwater monitoring well MW-19 was reported as "no longer exists"—if a well abandonment form for this well exists, provide such form. If no abandonment form for MW-19 is available, document the location of MW-19.

6. The final quarterly report shall include a base map that shows site features and all historical boring and well locations. The report shall include groundwater elevation and flow maps, isoconcentration maps of residual soil and groundwater contamination (including an isoconcentration map of total VOCs), a map of free product extent, updated tables which show all historic groundwater data on one table (including that conducted prior to this bid), concentration trend analyses; and all appropriate and required field forms, maps, tables, laboratory reports, etc.

7. Contamination beneath structures shall be addressed via listing on the GIS Registry, if a building or other structural impediment at a site or facility has prevented the completion of an investigation to determine the degree and extent of residual contamination.

8. The report shall include a recommendation on whether closure is available and it shall be submitted to the DNR (copy to Commerce) no later than three (3) months after

conducting the final round of groundwater sampling. In addition, the consultant shall provide all required electronic reporting per Comm 47.70 to Commerce.

Contingency Costs

- If, based on the results of the work conducted under this bid, closure is available, submit a cost estimate for the total additional costs to closure-(including but not limited closure request documentation, GIS Registry Packet, and remedial system abandonment and monitoring well abandonment costs) to Commerce for review.
- If additional remediation measures are necessary to aid site clean up to the extent practical, then submit an estimate for the additional remediation measures to DNR and the cost estimate for these measures to Commerce for review.

Bidders shall provide line item costs for all the activities listed above in the table provided on the 3rd Page of the Bid Response. If a completed 3rd page is not included with the Bid Response, the Bid Response will be determined to be nonresponsive. The winning bidder will not be allowed to move costs between the scope of work items without prior Commerce approval.

B) Bidder's Strategy for Remedial Action

- 1) Identify the remedial strategy for a specified work scope.
- 2) Specifically describe what element of your proposed strategy will address the environmental factors/risk factors listed above. Also describe how, when, and why it will address them.
- 3) Provide a detailed description of the work to be performed. The description shall provide sufficient detail to establish that the proposed strategy will be successful in achieving a specified work scope identified above.
 - a) The detailed description may include, but is not limited to the following:
 - Technologies
 - Estimated years of operation
 - Estimated tons of soil
 - Approximate geometry/depth of excavation
 - Reporting details
 - Estimated years of monitoring
 - Frequency of sampling/number of wells/parameters
- 4) Specifically describe how you will address off-site contamination, if applicable.
- 5) Specifically describe how you will address any direct contact hazards, if applicable.

SECTION 3 - Reporting Timeframes

Within *60 days* of the Commerce notification of the maximum reimbursement amount, the responsible party (RP) must execute a written contract with one of the firms that submitted a bid. Failure to execute the written contract within this time will result in ineligibility of interest expenses incurred from the date of the reimbursement cap letter until a contract is executed and work commences at the site. Work must commence within *45 days* of signing a contract. There are specific reporting requirements in Comm 47.70 to monitor the progress of activities at each bid site and there may be additional reporting requirements outlined above. The consulting firm that is contracted to complete the scope of work is required to report the progress of this site to Commerce electronically on the web site at each of the following points:

1. Within fourteen days of executing or terminating a contract with the RP.
2. Three months after entering into the contract with the RP.
3. Twelve months after beginning the work in the successful bid, unless the project is completed before that time (point 6 applies).
4. Twelve months after submitting the previous report (point 3), unless the project is completed before that time (point 6 applies).
5. No later than 10 days after encountering a change in circumstances (the list of circumstances is in Comm 47.70 (3)).
6. No later than 30 days after completing the work.
7. As directed by Commerce.

If Commerce determines that the consulting firm is failing to make adequate progress to complete the scope of work, Commerce will notify the RP and may reduce the reimbursement to accurately reflect the work completed.

Claim Submittal

A claim must be submitted to Commerce within 120 days of submitting the report described in *Reporting Timeframe, point #6*. If a claim is not submitted by the deadline described above, interest costs from the date the report (point #6) is submitted to the date the claim is received will not be reimbursed to the claimant. The claim preparation cost must be included in the Total Bid Amount and is considered within the reimbursement cap.

Questions and Answers

Questions, answers and interpretations will be considered an amendment of this solicitation. All questions must be submitted in writing (fax and electronic mail submittals are acceptable) to the Bid Manager identified in Section 1 of this solicitation. All answers and interpretations shall be in writing from the Bid Manager. Neither the PECFA program nor Commerce shall be legally bound by any amendments or interpretations that are not in writing. Bidders are not to contact other personnel located within the Department of Commerce/Bureau of PECFA concerning the site or the bid solicitation between the Bid Announcement Date and Bid End Date. No further questions will be addressed after the deadline for submitting questions identified in Section 1.

SECTION 4 - Conditions of Bid

The successful bidder will be the entity that complies with all provisions of the bid and provides the lowest total cost, excluding interest, for the site-specific bid requirements described in Section 2. In preparing the bid, the bidder must assume compliance with all applicable codes, including, but not limited to, §Comm 46, §Comm 47, and §NR 700 Wis. Admin. Codes.

The bid Commerce selects to determine the least costly method of remedial action will be the least costly qualified bid. Commerce will rank the bids solely on the basis of cost. Evaluation of bids will continue until the least costly qualified bid is identified. Submittals from an individual or firm during their period of disqualification from bidding, submittals received late and for submittals without a certified commitment (performance assurance and/or signature) will not be considered as bids. Commerce may disqualify a bid for the following reasons:

- Requirements of the bid specifications have not been met.
- The remedial strategy is not appropriate to the geologic setting.
- A Total Bid Amount is insufficient to fund the activities described in the bid specifications.

Commerce reserves the right to reject any and all bids.

Any proposed technology or methods used in the remediation must be allowed for use in the State of Wisconsin and approvable by the agency with jurisdiction (Natural Resources or Commerce).

The bidder Commerce intends to select may be required to provide input to and attend a meeting with the PECFA program and the claimant to explain the bid and remedial approach.

If a bid is disqualified, Commerce will provide written notification to any individual or firm that submitted a disqualified bid. The notification shall specify the reasons for the disqualification, and inform the individual or firm of their right to protest or appeal the decision. If a bid is more costly than the bid Commerce intends to select, the bid will not be reviewed.

The *Notice of Intent* will identify the least costly bid, disqualified bid(s) and bid(s) not reviewed. The *Notice of Intent* will be sent to the RP and will be posted on PECFA's Internet Web site.

SECTION 5 - Instructions to Bidders

Between the bid start and end dates, bidders shall not discuss or attempt to negotiate any aspects of the bid with the RP, other potential bidders or program staff without prior approval of the Bid Manager identified in Section 1. Infractions will result in rejection of the violator's bid and may result in a formal complaint being filed with the Department of Regulation and Licensing.

If access to the site is necessary for the preparation of a bid, access shall be arranged through the Bid Manager. If the Bid Manager is not able to arrange site access, this will not delay the bid process nor negate the comparison and selection from among the bids submitted. All costs associated with a site visit or preparation of a bid will be the bidder's responsibility.

The Bidding Process must conform to the following:

1. The Bid Response shall address all the site-specific bid requirements identified in Section 2.
2. The total bid amount to accomplish the stated goal must include all fees, reporting costs, pre- and post-closure costs and costs for establishing restrictions or institutional controls, when applicable (interest costs are excluded).
3. The submittal must include a copy of the Bid Response document signed by a Professional Engineer, Professional Geologist, Hydrologist or Soil Scientist licensed by the State of Wisconsin. The appropriate registration number of the professional license must be included. Registration requirements are listed in Comm 5.
4. Bids *cannot* be faxed or sent electronically (email) to the program. Documents received by fax or email will not be considered.
5. Bids, amendments thereto or withdrawal requests must be received by 4 pm on the bid end date.
6. The consulting firm's name must be included and all pages of the Bid Response.
7. All costs must be printed (ink, typewritten or computer). Errors must be crossed out, corrections entered and initialed by the person signing the bid. Correction fluid is not allowed. No bid shall be altered or amended after the time specified for the bid end date.
8. Each bidder shall fully acquaint themselves with conditions relating to the scope and restrictions attending to the execution of the work under the conditions of this bid. The failure of a bidder to acquaint themselves with existing documented conditions shall in no way relieve any obligation with respect to this bid.
9. All amendments to and interpretations of this bid shall be in writing from the Bid Manager. Neither Commerce nor the program shall be legally bound by any amendment or interpretation that is not in writing.
10. This bid is intended to promote competition. If the language, specifications, terms and conditions, or any combination thereof restricts or limits the requirements in this bid to a single source, it shall be the responsibility of the interested bidders to notify the program in writing so as to be received five days prior to the opening date. The bid may or may not be changed; however a review of such notification will be made prior to award.

SECTION 6 - Bidder Disqualification

Commerce may disqualify from public bidding any individual or firm that has committed any of the following (Comm 47.67 (1) (a)):

1. Failed to complete the scope of work within the reimbursement cost cap established through public bidding.
2. Failed to complete the scope of work in a bid in a timely manner.
3. Failed to follow DNR rules on the bid project.
4. Received one or more notices from Commerce under s. Comm 47.62 (2) that assess the financial management of an investigation as unacceptable.
5. In any prior occurrence that has been publicly bid, failed to do either of the following:
 - a. Pay subcontractors after receiving payment for them.
 - b. Obtain lien waivers on or before the date of the final payment by the RP or the PECFA program, from all subcontractors paid under subd. 5. a.
6. Failed to execute a contract with the RP as required in s. Comm 47.69 (1).
7. Failed to commence work within 45 days after executing a contract, as required in s. Comm 47.69 (3).

Commerce may disqualify any individual or firm from performing further work on a project if the individual or firm has not completed any of the six reporting points required in Comm 47.70 and outlined in Section 2 of this bid document. Commerce will review and address the issue as stated in Comm 47.70 (4).

BID RESPONSE

(1st Page)

Department of Commerce PECFA Program

SITE NAME: Coltec Industries-Fairbanks Morse Engine Division

COMMERCE #: 53511-9999-01-B

BRRTS #: 03-54-000307

Submit Bid Response To: Cathy Voges
Public Bid Response
Department of Commerce PECFA Bureau
201 W Washington Ave, Madison WI 53703-2760 or
PO Box 8044, Madison WI 53708-8044

Consulting Firm Name: _____

Complete Mailing _____

Address: _____

Telephone: () - _____

Fax Number: () - _____

E-mail Address: _____

Bidder (check one that applies):

<input type="checkbox"/>	Professional Engineer	License #	_____
<input type="checkbox"/>	Professional Geologist	License #	_____
<input type="checkbox"/>	Hydrologist	License #	_____
<input type="checkbox"/>	Soil Scientist	License #	_____

Total Bid Amount: \$ _____

Print Name: _____

Title: _____

I certify that I have the authority to commit my organization or firm to the performance of the bid I have submitted.

Signature: _____

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1)(m)].

BID RESPONSE

(2nd Page)

Department of Commerce PECFA Program

SITE NAME: Coltec Industries-Fairbanks Morse Engine Division

COMMERCE #: 53511-9999-01-B

BRRTS #: 03-54-000307

Consulting Firm Name: _____

A bid will be considered non-compliant if the bid response does not include a separate tabulation of costs for each activity.

1	Quarterly Free Product (LNAPL) monitoring per Paragraph 1.	\$	
2	Groundwater monitoring and other items per Paragraph 2.	\$	
3	1 soil boring using sonic drilling technologies, conduct soil field screening and analytical soil sampling (includes but not limited to mob/demob, per diem, waste disposal, well development, boring abandonment, and associated documentation) per Paragraph 3.	\$	
3	Quarterly Reporting per Paragraph 4.	\$	
4	Locate, repair, and/or document status of wells per Paragraph 5.	\$	
5	Final quarterly report with updated data per Paragraph 6.	\$	
6	Structural impediment issues, if applicable, per Paragraph 7.	\$	
7	Closure recommendation, if applicable, and reporting per Comm 47.70 per Paragraph 8.	\$	
8	PECFA Claim Preparation	\$	
9	Total Bid Amount	\$	
CONTINGENCY COSTS (Will be Approved and Added to the Bid Cap as Needed)			
•	Total costs to closure (including mob/demob, waste disposal, remedial system abandonment, groundwater monitoring well abandonment, and per diem) per first bulletpoint.	\$	

•	Additional remediation measures, if applicable, per second bulletpoint.	\$	
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BID RESPONSE

(3rd Page)

Department of Commerce PECFA Program

Division

SITE NAME: Coltec Industries-Fairbanks Morse Engine

COMMERCE #: 53511-9999-01

BRRTS #: 03-54-000307

Consulting Firm Name: _____

This response must address all of the site-specific requirements identified in Section 2, and shall support in detail the remedial strategy. Attach additional pages if necessary. *The Commerce Number and Consulting Firm name must be included on all additional pages.* The pages of each Bid Response must be *stapled* together. No paper clips or spiral bindings please.